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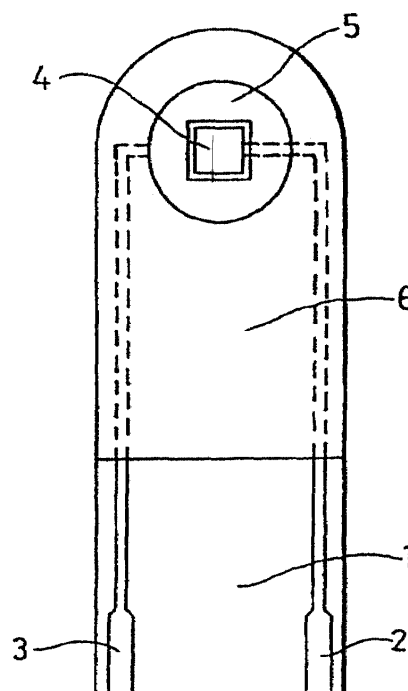
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(54) **Biosensor containing an enzyme and a sugar**

(57) A biosensor which enables rapid and simple quantitation of a substrate with high accuracy and which demonstrates an excellent preservation characteristic by best retaining enzyme activity is disclosed. The biosensor comprises an electrically insulating base plate, an electrode system including at least a working electrode and a counter electrode formed on the base plate, and a reaction layer containing at least an enzyme and a sugar formed on the electrode system, wherein the enzyme is at least one selected from the group consisting of glucose oxidase, glucose dehydrogenase and fructose dehydrogenase and the sugar is at least one selected from the group consisting of trehalose, sucrose, glycerol, mannitol and ribose. When the enzyme is glucose dehydrogenase whose coenzyme is pyrrolo-quinoline quinone, the use of trehalose as sugar is particularly preferable.

FIG. 1



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EUROPEAN SEARCH REPORT

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Place of search THE HAGUE		Date of completion of the search 18 June 2001	Examiner Moreno, C
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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